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Measurements of the inclusive cross section and of differential distributions in top quark pair production (D0)

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We present measurements of the inclusive top quark pair production cross section in various final states including electrons, muons, tau leptons, large missing transverse energy, b-tagged and light flavor jets. We also show measurements of differential distributions of top quarks produced in pairs which provides a unique test of the dynamics of a heavy diquark system at large scales and represents a powerful search for new physics. The measured spectra, binned in several observables, are compared to simulations from different Monte Carlo generators. The measurements use up to 10 fb^{-1} of data collected with the D0 detector at the proton-antiproton Tevatron collider at a center-of-mass energy of 1.96 TeV.

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